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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/809,268 | 03/25/2004 | Takashi Ono | 81707.0193 | 6921 |
| 26921 - 7590 - 60/17/2008 HOGAN & HARTSON L.L.P. 1999 AVENUE OF THE STARS | | | EXAMINER | |
| | | | WILLS, MONIQUE M | |
| SUITE 1400 LOS ANGELI | S. CA 90067 | | ART UNIT | PAPER NUMBER |
| | , | | 1795 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/809 268 ONO ET AL. Office Action Summary Examiner Art Unit Monique M. Wills 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 17 January 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) 16-19 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-15 and 20-27 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 3/25/04 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Dristspersor's Patent Drawing Review (PTO-948)
2) Notice of Information Disclassore Statement(s) (PTO/86/08)
5) Notice of Informati Patent #\$\frac{1}{2}\$ lication
Paper Not(s)Mail Date 6
6) Other 6
8. Potent and Transiew Stroke

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DETAILED ACTION

Response to Amendment

This Office Action is responsive to the Amendment filed November 17, 2007. The rejection of claims 20-27 under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Application Laid-Open No. 2000-149976 is withdrawn. The claims 20-27 are allowed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Application Laid-Open No. 2000-149976.

JP No. '976 teaches the fuel cell power system has a fuel cell assembly of the type having an electricity generation/combustion chamber defined within a housing, and electricity generation/combustion means, including a cell stack, disposed within the electricity generation/combustion chamber. An

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oxygen-containing gas supply passage for supplying an oxygen-containing gap, a fuel gas supply passage for supplying a fuel gas, and a combustion gas discharge passage for discharging a combustion gas from the electricity generation/combustion chamber are annexed to the electricity generation/combustion chamber. Heat exchange means is also disposed in the

fuel cell assembly. The oxygen-containing gas supply passage and the combustion gas discharge passage both extend through the heat exchange means. When the oxygen-containing gas and the combustion gas are flowed through the heat exchange means, heat exchange is carried out between these gases, whereby the oxygen-containing gas is preheated. The fuel gas in obtained by reforming a gas to be reformed (hereinafter referred to as an unreformed gas), such as city gas, into a hydrogen-rich gas. Reforming of the unreformed gas is advantageously performed by flowing the unreformed gas through a reforming case containing a required catalyst.

The reference does not expressly disclose that the combustion gas is discharged from an interior of the combustion chamber through the channel of the heat exchanger.

However, it would have been obvious to one of ordinary skill in the art at the time the instant invention was made to employ the combustion chamber such that the combustion gas is discharged from an interior of the combustion chamber through the channel of the heat exchanger in order to compact the fuel cell system such that the fuel cell may power smaller electrical devices.

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Response to Arguments

Applicant contends that Hiroshi (J.P. Patent Pub. No. 2000-149976) does not expressly disclose a heat exchanger having a first channel and a second channel disposed on the inner side of at least one wall of a housing defining an electricity generation/combustion chamber. This argument has been considered,but is not persuasive. As stated previously, it would have been obvious to put the heat exchangers in the inner side wall of the housing in order to power small electrical devices. With respect to the channels being located within the wall, it is well known to employ heat exchange channels to improve convection between heat exchange medium.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Monique Wills whose telephone number is (571) 272-1309. The Examiner can normally be reached on Monday-Friday from 8:30am to 5:00 pm.

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If attempts to reach Examiner by telephone are unsuccessful, the Examiner's supervisor, Patrick Ryan, may be reached at 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/M. M. W./ Examiner, Art Unit 1795

/PATRICK RYAN/ Supervisory Patent Examiner, Art Unit 1795